

ABSTRACT

A coding framework that provides conversions between one or more video formats without the use of a transcoder. A video information stream that includes color information formatted in accordance with a first color space sampling format is split into a base stream and an enhanced stream. The base stream is formatted in accordance with a second color space sampling format. The enhanced stream includes enhanced information that when combined with the base stream reconstructs the first format. During encoding, the enhanced stream may be encoded using spatial information related to the base information stream. An output stream of the encoded base stream and encoded enhanced stream may be interleaved, concatenated, or include independent files for the encoded base stream and the encoded enhanced stream.